



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 1  
ENVIRONMENTAL SERVICES DIVISION  
60 WESTVIEW STREET  
LEXINGTON, MASSACHUSETTS 02173-3185

*Mary Ellen Stanton*

DATE: November 28, 1997

SUBJ: Analysis of PCBs in Soils - JARD, INC.

FROM: Peter Philbrook, Investigations and Analysis, Chemistry Section

THRU: Dr. William J. Andrade, Advanced Analytical Chemistry Specialist

TO: Mary Ellen Stanton

PROJECT NUMBER: 98046

ANALYTICAL PROCEDURE:

All samples were received and logged in by the laboratory according to the SOP for Sample Log-In (EIA-ADMLOGN1.SOP, 7/97).

EPA Region 1 Procedure: Polychlorinated Biphenyls in Soil Samples, Mid Level Method, PCBSOML5.SOP. The modules used for this procedure were: XL 2020 Heat Systems Sonicator, SONICAT2.MOD, Chlorinated Pesticides and PCB Screening, 8500EC1.MOD, 5880 Gas Chromatographs, 5880EC2.MOD.

Results are reported out in dry weight.

The analytical support for this report was performed by AARP contractors.

Date Samples Received by the Laboratory: 10/30/97

Date Analysis Started: 11/10/97

cc:

File: J:\CHEMISTRY\REPORTS\PCB-PEST\98046SO.PCB



SDMS DocID 564434

US ENVIRONMENTAL PROTECTION AGENCY  
60 Westview Street  
Lexington, MA 02173

QUALITY CONTROL:

1. One method blank was included in the analysis.
2. Each sample was spiked with the surrogate compounds, tetrachloroxylene and decachlorobiphenyl, at approximately 0.2 mg/Kg. The results for the surrogate recoveries are reported out with each sample.
3. One sample, 08435, was spiked as a matrix spike with Aroclor-1260 at approximately 1.0 mg/Kg. The recovery is listed below.

PCB	Recovery (%)	QC Range (%)
Aroclor 1260	100	46 - 153

OTHER COMPOUNDS QUANTITATED:

PCB	Conc. mg/Kg
Aroclor 1242	57

4. One sample, 08445, was analyzed in duplicate. The results are listed below.

PCB	08445	08445 DUP	RPD
Aroclor 1242	ND	ND	0

SAMPLES ANALYZED: 08428, 08429, 08430, 08431, 08432, 08433, 08434,  
08435, 08435MS, 08436, 08437, 08438, 08439, 08440,  
08441, 08442, 08443, 08444, 08445, 08445 DUP

US ENVIRONMENTAL PROTECTION AGENCY  
60 Westview Street  
Lexington, MA 02173

Chemist who reviewed data: Peter Philbrook

Holding time meet (Y/N): Yes

Extraction (Water - 7 days, Soil - 14 days)

Analytical (40 days after extraction)

Method modifications: None

Limitations of data: None

Laboratory blank problems: None

Instrument performance problems: None

Surrogate and spike recovery problems: None

Additional comments:

The gas chromatographic trace of the samples most closely matched that of Aroclor 1242 but the samples had a severely "weathered" appearance. This is indicative of degradation of the Aroclor in the sample environment.

There was not enough sample supplied to the lab for a dry weight determination on sample 08428. The results for sample 08428 are reported out on a wet weight basis.

FACILITY SAMPLED: JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08428

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: \*\*\*

WET WEIGHT EXTRACTED: 3.21 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture: \*\*\*

Extract Dilution None

Report Factor: 0.9

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.15	
11104-28-2	Aroclor-1221	ND	0.15	
11141-16-5	Aroclor-1232	ND	0.15	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>0.34</b>	<b>0.15</b>	<b>***</b>
12672-29-6	Aroclor-1248	ND	0.15	
11097-69-1	Aroclor-1254	ND	0.15	
11096-82-5	Aroclor-1260	ND	0.15	
11100-14-4	Aroclor-1262	ND	0.15	
37324-23-5	Aroclor-1268	ND	0.15	

\*\*\*=results based on wet weight (see page 3 "additional comments")

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl	78
2,4,5,6-Tetrachloro-m-xylene	61

Notes:

RL = Reporting level

ND = None detected

- = Approximate

< = Less than

> = Greater than

NA = Not applicable due to high sample  
dilutions or sample interferences

E = Estimated value exceeds the calibration range

L = Estimated value is below the calibration range

B = Analyte is associated with the lab blank or trip blank  
contamination. Values are qualified when the observed  
concentration of the contaminant in the sample extract  
is less than ten times the concentration in the blank.

P = The confirmation value exceeded 35% difference and is  
less than 100%. The lower value is reported.

D = Detected but too low to quantitate.

C = The identification has been confirmed by GC/MS.

FACILITY SAMPLED: JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08429

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 2.84 g

WET WEIGHT EXTRACTED: 4.49 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 27

Dilution Factor: 25x

Report Factor: 26

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	4.4	
11104-28-2	Aroclor-1221	ND	4.4	
11141-16-5	Aroclor-1232	ND	4.4	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>42</b>	<b>4.4</b>	
12672-29-6	Aroclor-1248	ND	4.4	
11097-69-1	Aroclor-1254	ND	4.4	
11096-82-5	Aroclor-1260	ND	4.4	
11100-14-4	Aroclor-1262	ND	4.4	
37324-23-5	Aroclor-1268	ND	4.4	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl

NA

2,4,5,6-Tetrachloro-m-xylene

NA

FACILITY SAMPLED: JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08430

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 15.89 g

WET WEIGHT EXTRACTED: 17.22 g

Matrix: Concrete

Final Volume: 5 mL

Percent Moisture 8

Dilution Factor: 5x

Report Factor: 0.9

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.15	
11104-28-2	Aroclor-1221	ND	0.15	
11141-16-5	Aroclor-1232	ND	0.15	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>1.0</b>	<b>0.15</b>	
12672-29-6	Aroclor-1248	ND	0.15	
11097-69-1	Aroclor-1254	ND	0.15	
11096-82-5	Aroclor-1260	ND	0.15	
11100-14-4	Aroclor-1262	ND	0.15	
37324-23-5	Aroclor-1268	ND	0.15	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl

82

2,4,5,6-Tetrachloro-m-xylene

77

FACILITY SAMPLED: JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08431

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 3.50 g

WET WEIGHT EXTRACTED: 4.00 g

Matrix: Soil  
Final Volume: 5 mL  
Percent Moisture: 12  
Dilution Factor: None  
Report Factor: 0.8

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.14	
11104-28-2	Aroclor-1221	ND	0.14	
11141-16-5	Aroclor-1232	ND	0.14	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>0.5</b>	<b>0.14</b>	<b>P</b>
12672-29-6	Aroclor-1248	ND	0.14	
11097-69-1	Aroclor-1254	ND	0.14	
11096-82-5	Aroclor-1260	ND	0.14	
11100-14-4	Aroclor-1262	ND	0.14	
37324-23-5	Aroclor-1268	ND	0.14	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl  
2,4,5,6-Tetrachloro-m-xylene

82  
74

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Polychlorinated Biphenyls

SAMPLE NO.: 08432

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 3.29 g

WET WEIGHT EXTRACTED: 3.66 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 10

Dilution Factor: 500x

Report Factor: 450

## SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	77	
11104-28-2	Aroclor-1221	ND	77	
11141-16-5	Aroclor-1232	ND	77	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>1000</b>	<b>77</b>	<b>P</b>
12672-29-6	Aroclor-1248	ND	77	
11097-69-1	Aroclor-1254	ND	77	
11096-82-5	Aroclor-1260	ND	77	
11100-14-4	Aroclor-1262	ND	77	
37324-23-5	Aroclor-1268	ND	77	

Sample Recovery for  
Surrogate Compound:Observed  
Recoveries (%)

Decachlorobiphenyl

NA

2,4,5,6-Tetrachloro-m-xylene

NA



FACILITY SAMPLED: JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08433

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/19/97

DRY WEIGHT EXTRACTED: 3.24 g

WET WEIGHT EXTRACTED: 3.71 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 13

Dilution Factor: 5x

Report Factor: 4.5

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.77	
11104-28-2	Aroclor-1221	ND	0.77	
11141-16-5	Aroclor-1232	ND	0.77	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>11</b>	<b>0.77</b>	<b>P</b>
12672-29-6	Aroclor-1248	ND	0.77	
11097-69-1	Aroclor-1254	ND	0.77	
11096-82-5	Aroclor-1260	ND	0.77	
11100-14-4	Aroclor-1262	ND	0.77	
37324-23-5	Aroclor-1268	ND	0.77	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl

93

2,4,5,6-Tetrachloro-m-xylene

83

FACILITY SAMPLED: JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08434

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 3.34 g

WET WEIGHT EXTRACTED: 3.59 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 7

Dilution Factor: 5x

Report Factor: 4.4

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.75	
11104-28-2	Aroclor-1221	ND	0.75	
11141-16-5	Aroclor-1232	ND	0.75	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>11</b>	<b>0.75</b>	<b>P</b>
12672-29-6	Aroclor-1248	ND	0.75	
11097-69-1	Aroclor-1254	ND	0.75	
11096-82-5	Aroclor-1260	ND	0.75	
11100-14-4	Aroclor-1262	ND	0.75	
37324-23-5	Aroclor-1268	ND	0.75	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl	91
2,4,5,6-Tetrachloro-m-xylene	77

FACILITY SAMPLED: JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08435

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 3.42 g

WET WEIGHT EXTRACTED: 3.89 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture: 12

Dilution Factor: 50x

Report Factor: 43

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	7.3	
11104-28-2	Aroclor-1221	ND	7.3	
11141-16-5	Aroclor-1232	ND	7.3	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>67</b>	<b>7.3</b>	<b>P</b>
12672-29-6	Aroclor-1248	ND	7.3	
11097-69-1	Aroclor-1254	ND	7.3	
11096-82-5	Aroclor-1260	ND	7.3	
11100-14-4	Aroclor-1262	ND	7.3	
37324-23-5	Aroclor-1268	ND	7.3	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl	91
2,4,5,6-Tetrachloro-m-xylene	82

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Polychlorinated Biphenyls

SAMPLE NO.: 08436

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/19/97

DRY WEIGHT EXTRACTED: 3.33 g

WET WEIGHT EXTRACTED: 3.66 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 9

Dilution Factor: 20x

Report Factor: 18

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	3.1	
11104-28-2	Aroclor-1221	ND	3.1	
11141-16-5	Aroclor-1232	ND	3.1	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>41</b>	<b>3.1</b>	
12672-29-6	Aroclor-1248	ND	3.1	
11097-69-1	Aroclor-1254	ND	3.1	
11096-82-5	Aroclor-1260	ND	3.1	
11100-14-4	Aroclor-1262	ND	3.1	
37324-23-5	Aroclor-1268	ND	3.1	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl  
2,4,5,6-Tetrachloro-m-xylene

NA  
NA

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Polychlorinated Biphenyls

SAMPLE NO.: 08437

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 3.13 g

WET WEIGHT EXTRACTED: 3.81 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 18

Dilution Factor: None

Report Factor: 0.9

## SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.15	
11104-28-2	Aroclor-1221	ND	0.15	
11141-16-5	Aroclor-1232	ND	0.15	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>1.1</b>	<b>0.15</b>	<b>P</b>
12672-29-6	Aroclor-1248	ND	0.15	
11097-69-1	Aroclor-1254	ND	0.15	
11096-82-5	Aroclor-1260	ND	0.15	
11100-14-4	Aroclor-1262	ND	0.15	
37324-23-5	Aroclor-1268	ND	0.15	

Sample Recovery for  
Surrogate Compound:Observed  
Recoveries (%)

Decachlorobiphenyl

86

2,4,5,6-Tetrachloro-m-xylene

75

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Polychlorinated Biphenyls

SAMPLE NO.: 08438

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/19/97

DRY WEIGHT EXTRACTED: 3.24 g

WET WEIGHT EXTRACTED: 3.71 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 13

Dilution Factor: 2x

Report Factor: 1.8

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.31	
11104-28-2	Aroclor-1221	ND	0.31	
11141-16-5	Aroclor-1232	ND	0.31	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>5.9</b>	<b>0.31</b>	
12672-29-6	Aroclor-1248	ND	0.31	
11097-69-1	Aroclor-1254	ND	0.31	
11096-82-5	Aroclor-1260	ND	0.31	
11100-14-4	Aroclor-1262	ND	0.31	
37324-23-5	Aroclor-1268	ND	0.31	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl

87

2,4,5,6-Tetrachloro-m-xylene

71

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08439

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/19/97

DRY WEIGHT EXTRACTED: 2.28 g

WET WEIGHT EXTRACTED: 3.71 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 38

Dilution Factor: 10x

Report Factor: 13

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	2.2	
11104-28-2	Aroclor-1221	ND	2.2	
11141-16-5	Aroclor-1232	ND	2.2	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>26</b>	<b>2.2</b>	<b>P</b>
12672-29-6	Aroclor-1248	ND	2.2	
11097-69-1	Aroclor-1254	ND	2.2	
11096-82-5	Aroclor-1260	ND	2.2	
11100-14-4	Aroclor-1262	ND	2.2	
37324-23-5	Aroclor-1268	ND	2.2	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl

82

2,4,5,6-Tetrachloro-m-xylene

88

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Polychlorinated Biphenyls

SAMPLE NO.: 08440

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/19/97

DRY WEIGHT EXTRACTED: 3.18 g

WET WEIGHT EXTRACTED: 3.54 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 10

Dilution Factor: 20x

Report Factor: 17

## SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	2.9	
11104-28-2	Aroclor-1221	ND	2.9	
11141-16-5	Aroclor-1232	ND	2.9	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>38</b>	<b>2.9</b>	<b>P</b>
12672-29-6	Aroclor-1248	ND	2.9	
11097-69-1	Aroclor-1254	ND	2.9	
11096-82-5	Aroclor-1260	ND	2.9	
11100-14-4	Aroclor-1262	ND	2.9	
37324-23-5	Aroclor-1268	ND	2.9	

Sample Recovery for  
Surrogate Compound:Observed  
Recoveries (%)

Decachlorobiphenyl

NA

2,4,5,6-Tetrachloro-m-xylene

NA



FACILITY SAMPLED: JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08441

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 3.07 g

WET WEIGHT EXTRACTED: 3.41 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 10

Dilution Factor: 50x

Report Factor: 48

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	8.2	
11104-28-2	Aroclor-1221	ND	8.2	
11141-16-5	Aroclor-1232	ND	8.2	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>110</b>	<b>8.2</b>	<b>P</b>
12672-29-6	Aroclor-1248	ND	8.2	
11097-69-1	Aroclor-1254	ND	8.2	
11096-82-5	Aroclor-1260	ND	8.2	
11100-14-4	Aroclor-1262	ND	8.2	
37324-23-5	Aroclor-1268	ND	8.2	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl

NA

2,4,5,6-Tetrachloro-m-xylene

NA

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Polychlorinated Biphenyls

SAMPLE NO.: 08442

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 3.45 g

WET WEIGHT EXTRACTED: 3.71 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 7

Dilution Factor: None

Report Factor: 0.9

## SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.15	
11104-28-2	Aroclor-1221	ND	0.15	
11141-16-5	Aroclor-1232	ND	0.15	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>0.24</b>	<b>0.15</b>	<b>P</b>
12672-29-6	Aroclor-1248	ND	0.15	
11097-69-1	Aroclor-1254	ND	0.15	
11096-82-5	Aroclor-1260	ND	0.15	
11100-14-4	Aroclor-1262	ND	0.15	
37324-23-5	Aroclor-1268	ND	0.15	

Sample Recovery for  
Surrogate Compound:Observed  
Recoveries (%)

Decachlorobiphenyl

90

2,4,5,6-Tetrachloro-m-xylene

73

FACILITY SAMPLED: JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08443

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 3.33 g

WET WEIGHT EXTRACTED: 3.70 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 10

Dilution Factor: 20x

Report Factor: 18

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	3.1	
11104-28-2	Aroclor-1221	ND	3.1	
11141-16-5	Aroclor-1232	ND	3.1	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>30</b>	<b>3.1</b>	<b>P</b>
12672-29-6	Aroclor-1248	ND	3.1	
11097-69-1	Aroclor-1254	ND	3.1	
11096-82-5	Aroclor-1260	ND	3.1	
11100-14-4	Aroclor-1262	ND	3.1	
37324-23-5	Aroclor-1268	ND	3.1	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl

NA

2,4,5,6-Tetrachloro-m-xylene

NA

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Polychlorinated Biphenyls

SAMPLE NO.: 08444

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 3.20 g

WET WEIGHT EXTRACTED: 3.45 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 7

Dilution Factor: None

Report Factor: 0.9

## SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.15	
11104-28-2	Aroclor-1221	ND	0.15	
11141-16-5	Aroclor-1232	ND	0.15	
53469-21-9	Aroclor-1242	ND	0.15	
12672-29-6	Aroclor-1248	ND	0.15	
11097-69-1	Aroclor-1254	ND	0.15	
11096-82-5	Aroclor-1260	ND	0.15	
11100-14-4	Aroclor-1262	ND	0.15	
37324-23-5	Aroclor-1268	ND	0.15	

Sample Recovery for  
Surrogate Compound:Observed  
Recoveries (%)

Decachlorobiphenyl

84

2,4,5,6-Tetrachloro-m-xylene

72

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08445

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 3.03 g

WET WEIGHT EXTRACTED: 3.26 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 7

Dilution Factor: None

Report Factor: 1.0

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.17	
11104-28-2	Aroclor-1221	ND	0.17	
11141-16-5	Aroclor-1232	ND	0.17	
53469-21-9	Aroclor-1242	ND	0.17	
12672-29-6	Aroclor-1248	ND	0.17	
11097-69-1	Aroclor-1254	ND	0.17	
11096-82-5	Aroclor-1260	ND	0.17	
11100-14-4	Aroclor-1262	ND	0.17	
37324-23-5	Aroclor-1268	ND	0.17	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl

90

2,4,5,6-Tetrachloro-m-xylene

83

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: BLANK

DATE OF COLLECTION: N/A

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/17/97

DRY WEIGHT EXTRACTED: 3.00 g

WET WEIGHT EXTRACTED: 3.00 g

Matrix: Soil  
Final Volume: 5 mL  
Percent Moisture 0  
Dilution Factor: None  
Report Factor: 1.0

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.17	
11104-28-2	Aroclor-1221	ND	0.17	
11141-16-5	Aroclor-1232	ND	0.17	
53469-21-9	Aroclor-1242	ND	0.17	
12672-29-6	Aroclor-1248	ND	0.17	
11097-69-1	Aroclor-1254	ND	0.17	
11096-82-5	Aroclor-1260	ND	0.17	
11100-14-4	Aroclor-1262	ND	0.17	
37324-23-5	Aroclor-1268	ND	0.17	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl  
2,4,5,6-Tetrachloro-m-xylene

81  
72